

AMENDMENTS TO THE CLAIMS:

Please cancel claims 1-25 and add new claims 26-76. This listing of claims below will replace all prior versions and listings of claims in the application.

Complete listing of claims

Claims 1-25 (cancelled)

26. (New) A thermoplastic multilayer composite in the form of a hollow body comprising at least one inner layer, at least one intermediate layer, as well as at least one thermoplastic outer layer, wherein the inner layer comprises a mixture of different polyamide-homopolymers, and wherein the inner layer may additionally comprise a compatibilizer.
27. (New) A thermoplastic multilayer composite according to claim 26, wherein the inner layer is made of a mixture of at least two components, wherein the first component is a polyamide-homopolymer selected from the group of polyamide 6 and polyamide 66, and wherein the second component is a polyamide-homopolymer selected from the group of polyamide 12, polyamide 11, polyamide 1010, polyamide 1212 and polyamide 1012.

28. (New) A thermoplastic multilayer composite according to claim 27, wherein the first component is polyamide 6.
29. (New) A thermoplastic multilayer composite according to claim 28, wherein the second component is polyamide 12.
30. (New) A thermoplastic multilayer composite according to claim 27, wherein the inner layer or material for the inner layer, respectively, is produced at a compounding temperature of at most 280°C and at an extrusion temperature of at most 280°C.
31. (New) A thermoplastic multilayer composite according to claim 30, wherein the compounding temperature and/or the extrusion temperature, respectively, are each at most 250°C.
32. (New) A thermoplastic multilayer composite according to claim 31, wherein the compounding temperature and/or the extrusion temperature are each in a range between 230°C to 240°C.
33. (New) A thermoplastic multilayer composite according to claim 27, wherein the weight ratio of the first component to the second component is in a range between 2:3 to 3:2.

34. (New) A thermoplastic multilayer composite according to claim 33, wherein the weight ratio of the first component to the second component is in a range between 2:3 to 1:1.
35. (New) A thermoplastic multilayer composite according to claim 26, wherein the inner layer comprises a compatibilizer in a proportion in the range of 0-30 parts in weight, with reference to the total of parts in weight of polyamides and compatibilizer.
36. (New) A thermoplastic multilayer composite according to claim 35, wherein the proportion of the compatibilizer is in the range of 0-20 parts in weight.
37. (New) A thermoplastic multilayer composite according to claim 36, wherein the proportion of the compatibilizer is in the range of 5-15 parts in weight.
38. (New) A thermoplastic multilayer composite according to claim 35, wherein the compatibilizer is an impact strength modifier, an elastomer or a rubber.
39. (New) A thermoplastic multilayer composite according to claim 38, wherein the compatibilizer is an acid-modified ethylene/ α -olefin-copolymer.
40. (New) A thermoplastic multilayer composite according to claim 26, wherein the inner layer comprises a compatibilizer in a proportion in the range of 5-35 parts in

weight, with reference to the total of parts in weight of polyamides and compatibilizer.

41. (New) A thermoplastic multilayer composite according to claim 40, wherein the proportion of the compatibilizer is in the range of 8-30 parts in weight.
42. (New) A thermoplastic multilayer composite according to claim 41, wherein the proportion of compatibilizer is in the range of 12-25 parts in weight.
43. (New) A thermoplastic multilayer composite according to claim 26, wherein the intermediate layer is made of a material comprising polyamide 6, a copolyamide, a polyolefin, an ethylene/vinyl alcohol-copolymer, or a blend of at least two of these components.
44. (New) A thermoplastic multilayer composite according to claim 43, wherein the intermediate layer is made of a material comprising copolyamide 6/12.
45. (New) A thermoplastic multilayer composite according to claim 26, wherein the inner layer is located immediately adjacent to the intermediate layer.
46. (New) A thermoplastic multilayer composite according to claim 45, wherein the intermediate layer is located immediately adjacent to the outer layer.

47. (New) A thermoplastic multilayer composite according to claim 26, wherein there is provided at least one additional intermediate layer between the first intermediate layer and the inner layer; or between the first intermediate layer and the outer layer.
48. (New) A thermoplastic multilayer composite according to claim 47, wherein the first intermediate layer is made of a material comprising ethylene/vinyl alcohol copolymer.
49. (New) A thermoplastic multilayer composite according to claim 47, wherein the additional intermediate layer is made of a material comprising polyamide 6, a copolyamide, a polyolefin or a blend of at least two of these components.
50. (New) A thermoplastic multilayer composite according to claim 49, wherein the copolyamide is copolyamide 6/12.
51. (New) A thermoplastic multilayer composite according to claim 26, wherein the inner layer comprises anti-static additives, plasticizers, pigments, stabilizers, flame retardant additives or reinforcement.
52. (New) A thermoplastic multilayer composite according to claim 26, wherein the multilayer composite is provided as a tube, and wherein the inner layer or a

supplementary innermost layer comprises a polyamide blend and at least one electrically conductive additive.

53. (New) A thermoplastic multilayer composite according to claim 26, wherein there is provided at least one intermediate layer comprising ethylene/vinyl alcohol-copolymer.
54. (New) A thermoplastic multilayer composite according to claim 53, wherein the at least one intermediate layer further comprises additives for improving mechanical properties.
55. (New) A thermoplastic multilayer composite according to claim 54, wherein the additives for improving mechanical properties improve impact strength, stress crack resistance, elongation at break or a combination thereof.
56. (New) A thermoplastic multilayer composite according to claim 53, wherein the weight ratio of the first component of the outer layer to the second component of the outer layer is in the range between 2:3 to 3:2.
57. (New) A thermoplastic multilayer composite according to claim 56, wherein the weight ratio of the first component of the outer layer to the second component of the outer layer is in the range between 2:3 to 1:1.

58. (New) A thermoplastic multilayer composite according to claim 26, wherein the outer layer comprises a polyolefin or a thermoplastic elastomer.
59. (New) A thermoplastic multilayer composite according to claim 26, wherein the outer layer comprises different polyamide-homopolymers.
60. (New) A thermoplastic multilayer composite according to claim 59, wherein the polyamide is a mixture of at least two components, and wherein first component of the outer layer is a polyamide-homopolymer selected from the group of polyamide 6 and polyamide 66, and the second component of the outer layer is a polyamide-homopolymer selected from the group of polyamide 12, polyamide 11, polyamide 1010, polyamide 1212 and polyamide 1012.
61. (New) A thermoplastic multilayer composite according to claim 59, wherein the polyamide homopolymer is a mixture of at least two components and wherein the first component of the outer layer is polyamide 6.
62. (New) A thermoplastic multilayer composite according to claim 61, wherein the second component of the outer layer is polyamide 12.
63. (New) A thermoplastic multilayer composite according to claim 59, wherein the outer layer additionally comprises a compatibilizer.

- 64. (New) A thermoplastic multilayer composite according to claim 63, wherein the compatibilizer is in a proportion in the range between 0-30 parts in weight, with reference to the total of the parts in weight of polyamides and compatibilizer.
- 65. (New) A thermoplastic multilayer composite according to claim 64, wherein the compatibilizer is in a proportion in the range between 0-20 parts in weight.
- 66. (New) A thermoplastic multilayer composite according to claim 65, wherein the compatibilizer is in a proportion in the range between 5-15 parts in weight.
- 67. (New) A thermoplastic multilayer composite according to any claim 59, wherein the outer layer comprises a compatibilizer in a proportion in the range of 5-35 parts in weight, with reference to the total of parts in weight of polyamides and compatibilizer.
- 68. (New) A thermoplastic multilayer composite according to claim 67, wherein the compatibilizer is in a proportion in the range between 8-30 parts in weight.
- 69. (New) A thermoplastic multilayer composite according to claim 68, wherein the compatibilizer is in a proportion in the range between 12-25 parts in weight.

70. (New) A thermoplastic multilayer composite according to claim 63, wherein the compatibilizer of the outer layer is an impact strength modifier, an elastomer or a rubber.
71. (New) A thermoplastic multilayer composite according to claim 70, wherein the compatibilizer of the outer layer is an acid-modified ethylene/ α -olefin copolymer.
72. (New) A method for producing a hollow body of a thermoplastic multilayer composite according to claim 26, which comprises joining the inner layer, the intermediate layer, as well as the outer layer and optionally additional intermediate layers in a coextrusion process to form the hollow body.
73. (New) A method according to claim 72, wherein the hollow body is in the form of a hose, a pipe or a container.
74. (New) A thermoplastic multilayer composite according to claim 26, wherein the thermoplastic multilayer composite is in the form of a tubing.
75. (New) A tubing according to claim 74, wherein the tubing is suitable to be used with liquid fuel.

76. (New) A thermoplastic multilayer composite according to claim 26, wherein the thermoplastic multilayer composite is in the form of a filler neck for a fuel tank, a fuel system vent pipe, or a vent pipe for a crankcase.